

CLAIMS

1. Shock absorbing device for adjustable pitch propeller with feathering blades, each blade of which having a planet gear engaging on a pignon-hub rotated by the drive shaft and composed of a first flanged cylindrical sleeve keyed to the drive shaft, the flange of which has a plurality of circular cavities uniformly distributed around a circumference of the flange, each cavity containing a regular resilient insert of elastomer, and a second flanged cylindrical sleeve slid on a cylindrical portion of said first sleeve and ending with said pignon, the terminal flange of which having a plurality of pins uniformly distributed around a circumference of the flange, each pin engaging a respective annular insert of elastomer, characterized in that

through the bottom of each of said circular cavities housing said annular inserts of elastomer of the flange of said first cylindrical sleeve is present a hole coaxial to the axis of the central hole of said annular insert of elastomer and having a diameter larger than diameter of the central hole of the annular insert of elastomer and of the relative engaging pin and in that said pins extend through said coaxial hole present on the bottom of the respective circular cavities of the flange of said first cylindrical sleeve.

2. The shock absorbing device according to claim 1, wherein the difference between the radius of the coaxial hole through the bottom of each of said circular cavity and the radial thickness of the annular insert of elastomer is comprised in percentage terms between 20% and 50% of said radial thickness of the annular insert of elastomer.

3. The shock absorbing device of claim 2, wherein said difference is comprised between 20% and 30% of said radial thickness.